

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A quick-release tube clamp in a modular lower limb prosthetic system for connecting a pylon/foot component to a socket having a pyramidal boss, said pylon/foot component having a tubular pylon with an outer diameter, said quick-release tube clamp comprising:

a tubular portion having an outer diameter, an upper end, and a lower end, said tubular portion having at least one formed slot along a longitudinal length of said tubular portion, said tubular portion having a formed cylindrical opening with an inner diameter slightly larger than said outer diameter of said tubular pylon,

an annular socket portion, integrally formed said tubular portion, at the upper end of the tubular portion for attaching to the pyramidal boss of said socket,

a plurality of adjusting screws engaging said annular socket portion, said plurality of adjusting screws securely connecting said annular socket to said pyramidal boss of said socket.

a clamp portion near the lower end of said tubular portion, said clamp portion locking said tubular portion around said tubular pylon in a locking position when said tubular pylon is inserted into said tubular portion, said clamp portion releasing said tubular portion from said tubular pylon in an unlocked position, said clamp portion comprising:

a pair of opposing tabs, integrally formed on said tubular portion, located on opposite sides of said formed slot,

a handle connected to said pair of opposing tabs, said handle having a formed cam at one end, ~~said handle curved to follow the shape of said tubular portion~~, ~~said formed cam operative in a lock~~ said locking position on said pair of opposing tabs for holding said pair of opposing tabs in said locking position by reducing the width of said formed slot, said formed cam operative in said unlocking position for releasing said pair of opposing tabs for rotation of said pylon/foot component with respect to said

socket in said modular lower limb prosthetic system so as to provide toe-in and toe-out adjustment.

Claim 2 (original): The quick-release tube clamp of claim 1 wherein said clamp portion is at the lower end of said tubular portion.

Claim 3 (original): The quick-release tube clamp of claim 1 wherein said clamp portion is offset from the lower end of said tubular portion.

Claim 4 (currently amended): The quick-release tube clamp of claim 1 wherein said clamp portion further comprises:

a bolt,

a thumb nut interconnected to a said bolt, said bolt operatively connected to said handle and to said pair of opposing tabs, said thumb nut abutting one of said opposing tabs to provide adjustment to the width of said formed slot when said handle is operated in said locking position.

Claim 5 (currently amended): The quick-release tube clamp of claim 4 wherein said bolt has a threaded end and wherein said thumb nut has an internal threaded nylon insert for holding securing said thumb nut to said threaded end of said bolt after said width adjustment.

Claim 6 (original): The quick-release tube clamp of claim 1 wherein said clamp portion further comprises:

a camming cup disposed between one of said opposing tabs and said cam.

Claim 7 (original): The quick-release tube clamp of claim 6 wherein the camming cup further comprises:

a nylon insert to provide a low wear point when said cam abuts against said camming cup to operate said quick-release tube clamp into said locking position.

Claim 8 (original): The quick-release tube clamp of claim 1 wherein said handle terminates in a raised end, opposite to the end having said cam.

Claim 9 (currently amended): The quick-release tube clamp of claim 1 wherein said handle has sufficient length to curve around said tubular portion opposite the formed slot so as to extend in a region at least 45° ~~from the~~ beyond a diameter of the tubular portion taken through the formed slot, said handle having an interior surface abutting against the outer surface of the tubular portion at least in throughout said 45° region.

Claim 10 (currently amended): A quick-release tube clamp in a modular lower limb prosthetic system for connecting a pylon/foot component to a socket, said pylon/foot component having a tubular pylon with an outer diameter, said quick-release tube clamp comprising:

a tubular portion, said tubular portion having a formed slot along a longitudinal length of said tubular portion, said tubular portion having a formed cylindrical opening with an inner diameter slightly larger than said outer diameter of said tubular pylon,

an annular socket portion at the upper end of the tubular portion for attaching to the socket,

a clamp portion near the lower end of said tubular portion, said clamp portion locking said tubular portion around said tubular pylon in a locking position when said tubular pylon is inserted into said tubular portion, said clamp portion releasing said tubular portion from said tubular pylon, said clamp portion comprising:

a pair of opposing tabs located on opposite sides of said formed slot,

a handle, said handle having a formed cam at one end, said handle curved to follow the shape of said tubular portion, said cam operative in a lock position on said pair of opposing tabs for holding said pair of opposing tabs in said locking position by reducing the width of said formed slot, said handle terminating in a raised end, opposite to the end having said cam, said handle having a sufficient length to curve around said tubular portion opposite the formed slot so as to extend in a region at least 45° ~~from the~~ beyond a diameter of the tubular portion taken through the formed slot,

said handle having an interior surface abutting against the outer surface of the tubular portion ~~at least in~~ throughout said 45° region.

Claim 11 (original): The quick-release tube clamp of claim 10 wherein said clamp portion is at the lower end of said tubular portion.

Claim 12 (original): The quick-release tube clamp of claim 10 wherein said clamp portion is offset from the lower end of said tubular portion.

Claim 13 (currently amended): The quick-release tube clamp of claim 10 wherein said clamp portion further comprises:

a bolt,

a thumb nut interconnected to a said bolt, said bolt operatively connected to said handle and to said pair of opposing tabs, said thumb nut abutting one of said opposing tabs to provide adjustment to the width of said formed slot when said handle is operated in said locking position wherein said bolt has a threaded end and wherein said thumb nut has an internal threaded nylon insert for holding securing said thumb nut to said threaded end of said bolt after said width adjustment.

Claim 14 (original): The quick-release tube clamp of claim 10 wherein said clamp portion further comprises:

a camming cup disposed between one of said opposing tabs and said cam.

Claim 15 (original): The quick-release tube clamp of claim 14 wherein the camming cup further comprises:

a nylon insert to provide a low wear point when said cam abuts against said camming cup to operate said quick-release tube clamp into said locking position.

Claim 16 (currently amended): A quick-release method for releasing a prosthetic pylon/foot component inserted in a tube clamp to provide toe-in and toe-out adjustment of the

prosthetic pylon/foot component, said tube clamp connected to a socket, said method comprising:

moving a single lever on the tube clamp from a locked position to a released position,

increasing the width of a formed slot in said tube clamp as a cam on said single lever is operated in response to moving the single lever from said locked position to said unlocked position,

removing rotating the prosthetic pylon/foot component from with respect to the tube clamp when the single lever is in the released position to provide said toe-in and toe-out adjustment,

moving the single lever back to the locked position to secure the provided adjustment.

Claim 17 (new): The quick-release tube clamp of claim 6 wherein said clamp portion further comprises:

a tension spring between the aforesaid one of said opposing tabs and said camming cup to hold said camming cup against said cam.

Claim 18 (new): The quick-release tube clamp of claim 14 wherein said clamp portion further comprises:

a tension spring between the aforesaid one of said opposing tabs and said camming cup to hold said camming cup against said cam.

Claim 19 (new): A modular lower limb prosthetic system comprising:

a pylon/foot component, said pylon/foot component having a tubular pylon with an outer diameter,

a socket having a pyramidal boss,

a quick-release tube clamp, the quick release tube clamp comprising:

(a) a tubular portion having an outer diameter, an upper end, and a lower end, said tubular portion having at least one formed slot along a longitudinal length of

said tubular portion, said tubular portion having a formed cylindrical opening with an inner diameter slightly larger than said outer diameter of said tubular pylon,

(b) an annular socket portion, integral on said tubular portion, at the upper end of the tubular portion for attaching to the pyramidal boss of said socket,

(c) a plurality of screws engaging said annular socket portion, said plurality of adjusting screws securely connecting said annular socket to said pyramidal boss of said socket,

(d) a clamp portion near the lower end of said tubular portion, said clamp portion locking said tubular portion around said tubular pylon in a locking position when said tubular pylon is inserted into said tubular portion, said clamp portion releasing said tubular portion from said tubular pylon in an unlocked position, said clamp portion comprising:

(i) a pair of opposing tabs, integral on said tubular portion, located on opposite sides of said formed slot,

(ii) a handle connected to said pair of opposing tabs, said handle having a formed cam at one end, said formed cam operative in said locking position on said pair of opposing tabs for holding said pair of opposing tabs in said locking position by reducing the width of said formed slot, said formed cam operative in said unlocking position for releasing said pair of opposing tabs for rotation of said pylon/foot component with respect to said socket in said modular lower limb prosthetic system so as to provide toe-in and toe-out adjustment,

(iii) a bolt,

(iv) a thumb nut interconnected to said bolt, said bolt operatively connected to said handle, said thumb nut abutting one of said pair of opposing tabs to provide adjustment to the width of said formed slot when said handle is operated in said locking position, said thumb nut having an internal threaded insert for securing said thumb nut to said bolt after adjustment,

(v) a camming cup disposed between one of said pair of opposing tabs and said cam,

(vi) an insert in said camming cup to provide a low wear point when said cam abuts against said camming cup to operate said quick-release tube clamp into said locking position.